

REMARKS

In response to the Official Action of June 14, 2005, claim 1 has been amended in a manner which is believed to overcome the rejection raised at paragraph 2 of the Official Action. In paragraph 2, the phrase "other elements" was objected to for lack of clarity and the word "it" was objected to as indefinite. The proposed amended claim 1 is believed to correct these objections. Claim 1 is also amended to make clear that the recess (2) is formed in the circuit board (1) as clearly shown in Figure 1 and as further disclosed at page 8, lines 13-15.

Furthermore, it is noted that the present application is drawn to claims Species A, that is claims 1-7, 10-14 and 16.

Referring to paragraphs 4 and 5 of the Official Action, it is respectfully submitted that claims 1-7, 10-14 and 16 are not anticipated by US patent 5,065,226, Kluitmans et al (hereinafter Kluitmans). With regard to claims 1-6, 10-13 and 16, the Examiner sets forth that Kluitmans teaches a laser diode module comprising a circuit board shown in Figure 3 which is formed by a metal base carrier comprising an L-shaped conductive part and having a spacer of an insulating material formed from Al_2O_3 . As described in Kluitmans at column 6, lines 47-65, the laser diode module shown in Figure 1 is installed on one side of a printed circuit board that in turn is shown in Figure 3. The printed circuit board shown in Figure 3 has guide tracks GT_1 and GT_2 for connecting pins 5 and 10 which are connected to the bottom B of the module (see Figure 1) and a guide track MT for connecting the pin 9 which in turn is connected to the cathode of the laser diode LD.

It further states in the recited passage of Kluitmans that the dash line shown in Figure 3 shows how the laser diode module is attached to the bottom of the special printed circuit board. It is therefore clear from this description in Kluitmans that the printed circuit board in Figure 3 does not include a recess containing an opening and a bottom on which conducting tracks are installed in at least some of these conducting tracks being impedance matched. Furthermore, since the printed circuit board in

Kluitmans does not disclose a recess, it further does not disclose that a transducer is entirely located in a recess, which is specifically required in amended claim 1. Furthermore, there is no disclosure in Kluitmans of a circuit board having a recess in which some of the conducting tracks protrude laterally from the recess to the surrounding edges of the circuit board as further required in amended claim 1. Amended claim 1 particularly points out that the recess is formed in the circuit board.

Furthermore, there is no disclosure in Kluitmans that at least some of the conducting tracks that protrude laterally from the recess are connected to impedance-matched conductors that extend to a common surface on the inside of the circuit board 1 where they respectively end on a contact surface.

At best, Kluitmans shows a module which comprises a box-like metal casing (see Figures 1 and 2 of Kluitmans) which has separate parts including a bottom B and side walls SW1, SW2, SW3 and SW4 as disclosed at column 5, lines 22-24. The module disclosed in Kluitmans further comprises a copper cooling block CB (see column 5, lines 43-53). The laser diode LD and a photo diode PD as disclosed in Kluitmans, are arranged on sub-carriers SC₁ and SC₂ respectively and the main electrical connections are made via connecting wires to pin 9 for the laser diode and pins 7 and 8 for the photo diode (see column 5, line 62 through column 6, line 6).

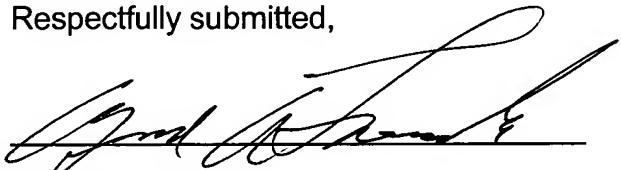
Thus, although Kluitmans does disclose a glass fiber F which is guided through one of the side walls of the casing (side wall SW₃), the remaining elements of amended claim 1 with their specific interrelationships are neither disclosed nor suggested by Kluitmans. Furthermore, there is no discussion in Kluitmans concerning the circuit board shown in Figure 3 indicating that the circuit board contains multiple layers of insulation material and intermediate layers of metal as required by amended claim 1. Furthermore, if, as suggested by the Examiner, Kluitmans discloses conductors that end on the contact surface of the printed circuit board as shown by numbers 1-14, then it is clear that the circuit board shown in Figure 3, as well as Figures 6, 7, 9-11, 14 and 15 of Kluitmans (for

various embodiments thereof), does not in any of these embodiments show a recess in the circuit board wherein a transducer is entirely located therein without projecting from the recess. In fact, the Examiner's statement at page 3, lines 5-7 of the Official Action that conductive blocks CBL, sheet-like metal base carrier BC, and conductive side wall SW1 and SW2 acts as an active shield around the circuit board to protect the circuitry from the electromagnetic field, confirms that the circuit board in fact does not have a recess formed therein containing an opening and a bottom in which the transducer is entirely located.

For all of the foregoing reasons, it is respectfully submitted that claim 1 as amended is neither anticipated nor suggested by Kluitmans. Since claim 1 is believed to be distinguished from Kluitmans, it is respectfully submitted that claims 2-7, 10-14 and 16 are further distinguished over Kluitmans in view of the fact that all of these claims ultimately depend from claim 1.

It is therefore respectfully submitted that the present application as amended is in condition for allowance and such action is earnestly solicited.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Alfred A. Fressola", written over a horizontal line.

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